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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	, CONFIRMATION NO.
10/027,877	12/19/2001	William Earl Webler	5618P2977	1005
8791	7590 02/13/2004		EXAMINER	
	SOKOLOFF TAYLO	FOREMAN, JONATHAN M		
12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025			ART UNIT	PAPER NUMBER
,,,		,	3736	8
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DATE MAILED: 02/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/027,877		WEBLER, WILLIAM EARL			
		Examiner	Art Unit	- LANE			
		Jonathan ML Fore	\	•			
	The MAILING DATE of this communication ap			address			
Period for Reply							
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a replayer of the reply within the set or extended period for reply will, by statute the provision of the original period for reply will, by statute the provision of the original period for reply will, by statute the provision of the original period for reply will, by statute the provision of the original period for reply will, by statute the provision of the original period for reply will, by statute the provision of the original period for reply will, by statute the provision of the original period for reply will, by statute the original period for reply will be original period for repl	136(a). In no event, howe	rer, may a reply be timely filed mum of thirty (30) days will be considered ti IX (6) MONTHS from the mailing date of th become ABANDONED (35 U.S.C. § 133).	imely. is communication.			
1) 🖂	Responsive to communication(s) filed on 06	November 2003 .					
2a) □	<u> </u>	his action is non-fi	nal.				
3)	Since this application is in condition for allow			the merits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	ion of Claims Claim(s) 1 20 is/are pending in the application	ın	·				
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 							
,							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-20</u> is/are rejected. 7)□ Claim(s) is/are objected to.							
•	Claim(s) are subject to restriction and/	or election require	nent.				
Application Papers							
9)	The specification is objected to by the Examin	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) D Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4)	Interview Summary (PTO-413) Paper Notice of Informal Patent Application Other:				
J.S. Patent and T PTO-326 (Re		Action Summary	Part of Paper No.	8			

Art Unit: 3736

DETAILED ACTION

Because of the rejection of previously objected to as allowable subject matter contained herein, the finality of the last Office action is withdrawn.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 5, 6 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,873,835 to Hastings et al.

In regards to claims 1, 5, 6 and 10, Hastings et al. discloses applicant's claimed invention including an elongate member in the form of a rod having dimensions suitable for insertion into a body (Col. 11, lines 1-7); at least one thermally conductive heating element comprising at least one of a wire, a film, and a thermistor material coupled to a portion of the elongate member (Col. 11, lines 7-9), the heating element comprising a material whose electrical resistance changes in response to a change in temperature; and an interface to a balanced circuit (Col. 13, lines 32-40) having the heating element and a variable resistor (Col. 13, lines 61-62) as resistive circuit elements. Hastings et al. discloses a portion of the elongate member being electrically conductive and the anemometry circuitry interface comprising an electrically conductive lead electrically coupled to a first end of the heating element, and the elongate member electrically coupled to a second end of the heating element (Col. 11, lines 33-35).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 3, 5 9, 11, 12, 14 –17, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,431,010 to Joffe in view of U.S. Patent No. 5,493,906 to Sen-Zhi.
- 5. In regards to claims 1 3, 5, 6, 9, 11, 12, 14, 17 and 19, Joffe discloses applicant's claimed invention including an elongate member in the form of a needle (Col. 3, lines 6 11) and a rod (Col. 2, lines 29 35) having dimensions suitable for insertion into a body; at least one thermally conductive heating element comprising at least one of a wire, a film, and a thermistor material coupled to a portion of the elongate member (Col. 3, line 64 Col. 4, line 25), the heating element comprising a material whose electrical resistance changes in response to a change in temperature. Joffe discloses the needle having an outer diameter between 0.009 inches and 0.134 inches (Col. 3, lines 14 18). The anemometry circuitry interface comprises a first conductive lead electrically coupled to a first end of the heating element; and a second electrically conductive lead coupled to a second end of the heating element (Col. 2, line 30). Joffe discloses a feedback loop to keep the tip of the needle at a constant temperature (Col. 3, lines 22 26), but fails to disclose the loop comprising an interface to a balanced circuit having the heating element and a variable resistor as resistive circuit element. Nor does Joffe disclose an amplifier coupled to the circuit to amplify the voltage difference sensed between the heating element and the variable resistor, and to input the

Art Unit: 3736

voltage difference back to the circuit to modify the temperature of the heating element such that the heating element assumes a second resistance. However, Sen-Zhi teaches a feedback loop for constant temperature anomometer (Col. 3, lines 48 – 52) comprising an interface to a balanced circuit (Figure 2) having the heating element (64) and a variable resistor (74) as resistive circuit element and an amplifier coupled to the circuit to amplify the voltage difference sensed between the heating element and the variable resistor, and to input the voltage difference back to the circuit to modify the temperature of the heating element such that the heating element assumes a second resistance (Col. 5, line 19 – Col. 6, line 6). It would have been obvious to one having ordinary skill in the art to replace the feedback loop as disclosed by Joffe to include an interface to the balanced circuit as disclosed by Sin-Zhi to better maintain the constant temperature anomometer.

In reference to claims 7 – 8 and 15 – 16, Joffe in view of Sen-Zhi fails to disclose the heating element being between 0.010 inches and 0.400 inches. However, a change in the size of a prior art device is a design consideration within the skill of the art. *In re Rose*, 220 F.2d 459, 105 USPQ 237 (CCPA 1955).

In reference to claim 20, Joffe in view of Sen-Zhi discloses an anemometry circuit and a heating element, but fails to disclose a plurality of heating elements measured by a plurality of anemometry circuits. However, duplicating the components of a prior art device is a design consideration within the skill of the art. *In re Harza*, 274 F.2d 669, 124 USPQ 378 (CCPA 1960).

6. Claims 4 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,431,010 to Joffe in view of U.S. Patent No. 5,493,906 to Sen-Zhi as applied to claims 2 and 11 above, and further in view of U.S. Patent No. 3,470,604 to Zenick.

In reference to claims 4 and 13, Joffe discloses a hypodermic needle, but fails to disclose the needle being formed of stainless steel. However, stainless steel is well known in the medical industry

Art Unit: 3736

for its strength, durability, ease of sterilization etc. Zenick discloses a hypodermic needle that is formed of stainless steel (Col. 1, line 65). It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the hypodermic needle as disclosed by Joffe out of stainless steel as taught by Zenick in order to have a sturdy, durably and easily sterilized hypodermic needle for insertion into a patient.

- 7. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,431,010 to Joffe in view U.S. Patent No. 5,493,906 to Sen-Zhi as applied to claim11 above, and further in view of U.S. Patent No. 5,873,835 to Hastings et al.
- 8. In regards to claim 18, Joffe discloses the anemometry circuitry being connected by a first conductive lead to a first end of the heating element; and a second electrically conductive lead being coupled to a second end of the heating element (Col. 2, line 30). However, Joffe fails to disclose the forming the elongate member of an electrically conductive material and coupling the first end of the heating element to an electrically conductive lead and coupling the second end of the heating element by the elongate member. Hastings et al. teaches a portion of the elongate member being electrically conductive and the anemometry circuitry interface comprising an electrically conductive lead electrically coupled to a first end of the heating element, and the elongate member electrically coupled to a second end of the heating element (Col. 11, lines 33 35). It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the elongate member as disclosed by Joffe to be an electrically conductive material and coupling the first end of the heating element to an electrically conductive lead and coupling the second end of the heating element by the elongate member as taught by Hastings et al. in order to reduce the resistance of the electrical connections to the heating element (Col. 11, lines 33 35).

Art Unit: 3736

Response to Arguments

9. Applicant's arguments filed 11/6/03 have been fully considered but they are not persuasive.

In regards to Hastings et al., Applicant states that Hastings et al. fails to disclose a balanced circuit

having a heating element and a variable resistor as resistive circuit elements. However, the examiner

disagrees. The examiner maintains that contained within the diagram shown in Figure 12 and

described in Col. 13, lines 32 - 41 is a balance circuit. Contained within this circuit are a heating

element (231) and a variable resistor (Col. 13, lines 61 – 62).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Jonathan ML Foreman whose telephone number is (703)-305-5390. The

examiner can normally be reached on Monday - Friday 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Max F Hindenburg can be reached on (703)308-3130. The fax phone numbers for the organization

where this application or proceeding is assigned are (703)-872-9306 for regular communications and

(703)-872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)-308-0858.

JML\F

February 9, 2004

MAX F. HINDENBURG

Page 6

TECHLOLOGY CENTER 3700